ABSTRACT

A system and means is provided for preserving bearing surfaces and maintaining bearing life, for use with spindle motors. In an aspect, adhesive and abrasive wear is minimized, corrosion is reduced, and bearing dynamic performance and fluid purity is maintained. In an aspect, a silicon containing copper alloy is utilized for one bearing surface and a stainless steel is utilized for an adjacent surface. The present invention also satisfies considerations including hardness, thermal expansion, thermal conductivity and use with grooved surfaces.